

**MASTER OF COMPUTER APPLICATIONS (CBCS - 2020 COURSE)**

**M.C.A. Sem-II : : SUMMER - 2022**

**SUBJECT : OBJECT ORIENTED SOFTWARE ENGINEERING**

Day : Tuesday  
Date : 24-05-2022

**S-22729-2022**

Time : 02:00 PM-05:00 PM  
Max. Marks : 60

**N.B.**

- 1) **Q.No. 4** from Section-I is **COMPULSORY**.
- 2) Attempt **ANY TWO** questions from Q.No. 1 to Q. No. 3 in Section – I.
- 3) Attempt **ANY TWO** questions from Q.No. 5 to Q. No. 7 in Section – II.
- 4) Figures to the **RIGHT** indicate **FULL** marks.
- 5) Answers to both the sections should be written in **SAME** answer book.
- 6) Draw a labeled diagram **WHEREVER** necessary.

**SECTION – I**

- Q.1** Answer the following : (12)
- a) Describe the following terms :
    - i) Abstraction
    - ii) Association
    - iii) Composition
  - b) Explain the role of Inception phase in Rational Unified Process(RUP).
- Q.2** Answer the following : (12)
- a) Describe role of class diagram in domain modeling.
  - b) Examine the role of use-case modeling in software design and development.
- Q.3** Explain the following : (12)
- a) State the diagram used show interaction of objects in time-space and describe role of it in software modeling.
  - b) Describe the various symbols used in Activity diagram.
- Q.4** Write short notes on **ANY THREE** of the following : (12)
- a) Component diagram
  - b) Use case realization
  - c) RAD (Rapid Application Development)
  - d) Collaboration diagram
  - e) Aggregation

**SECTION – II**

- Q.5** Answer the following : (12)
- a) Illustrate role of Deployment diagram with example.
  - b) Identify the use cases in Online Recruitment Process and write use case description of any one.
- Q.6** Answer the following : (12)
- a) What do you know about State Transition diagram? Draw state transition diagram for Elevator (Lift).
  - b) Prove the role of Activity diagram in software modeling with example.
- Q.7** Explain the following : (12)
- a) Identify classes in Hospital Management System along with attributes and behaviour of each class.
  - b) Draw a class diagram to show relationships with classes identified in Hospital Management System.

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